MARITIME PROVINCES GRADUATE FOLLOW-UP SURVEY

NEW BRUNSWICK COMMUNITY COLLEGES

TRAINING AND HUMAN RESOURCES DEVELOPMENT BRANCH
N.B. DEPARTMENT OF LABOUR AND HUMAN RESOURCES
P.O. BOX 6000, FREDERICTON, N.B. E3B 5H1

MARITIME PROVINCES GRADUATE FOLLOW-UP SURVEY
NEW BRUNSWICK COMMUNITY COLLEGES
GRADUATES OF THE 1982-83 SCHOOL YEAR SURVEYED IN MARCH, 1984

ANALYSIS BY AGE AND GENDER

TRAINING AND HUMAN RESOURCES DEVELOPMENT BRANCH
N.B. DEPARTMENT OF LABOUR AND HUMAN RESOURCES
P.O. BOX 6000, FREDERICTON, N.B. E3B 5H1
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INTRODUCTION

The purpose of the Maritime Provinces Graduate Follow-up Survey is to gather labour market information on the employment situation of Community College graduates nine months after graduation. Employment results and the general labour market experiences of our graduates are vital pieces of information in measuring the outcomes of the training programs.

This report deals with the New Brunswick component of the Maritime Provinces' student follow-up process which has involved the New Brunswick Department of Community Colleges and Department of Labour and Human Resources, the Prince Edward Island Department of Industry and the Nova Scotia Department of Labour and Manpower. The questionnaire used was similar in the three Maritime Provinces.

A mail-out survey was sent in March, 1984 to 2,725 graduates of specific programs from New Brunswick Community Colleges for the 1982-83 school year (most of whom graduated in June, 1983). A high (66 percent) response rate was achieved, making the data statistically significant.

For the purpose of this report, the analysis focused on two elements, the **age** and **gender** of the respondents and how these related to employment, education and earnings.

Users should note that a number of respondents did not answer all questions. Also, the statistics for some programs are based only on a small number of respondents. Hence, the results should be interpreted with caution and judgement.

GLOSSARY OF TERMS

GRADUATES:

- the number of persons who successfully completed their program of study during the 12 months ending June 30, 1983 at New Brunswick Community Colleges and to whom the questionnaire was sent (total of 2,725).

RESPONDENTS:

- all graduates who returned a completed survey questionnaire that was deemed usable for analysis (total of 1,794).

EMPLOYED:

- all respondents who indicated that they were employed in March, 1984 (total of 1,045).

PROGRAM RELATED:

- the employed respondent considered his/her job to be directly dependent on the skills and knowledge acquired from the program completed. Otherwise the occupation of the employed respondent can be classified as indirectly related or not related to the completed program.

YOUNGER:

- respondents who were 19 years of age or less at the time of enrolment.

OLDER:

- respondents who were 20 years of age or more at the time of enrolment.

FULL-TIME EMPLOYED:

- employed respondents who worked 30 hours per week or more at the time of the survey (912 employed or 87 percent).

EARNINGS:

- the weekly earnings as specified by 84 percent of all full-time employed respondents. Within this report, these weekly earnings statistics were aggregated by specific programs to yield the average weekly earnings.

OCCUPATIONS:

- the type of work performed at the place of employment as reported by the employed respondent. Each response was assigned a 4-digit code based on the 1980 Standard Occupational Classification (S.O.C.) of Statistics Canada.

INDUSTRIES:

- the nature of the business, enterprise or industry of the employer identified by the employed respondent. A 4-digit code was assigned to the industry, based on the 1980 Standard Industry Classification (S.I.C.) of Statistics Canada.

SPONSORSHIP:

- federally sponsored students refer to those who were selected for training under the terms of the National Training Act (National Institutional Training Program or N.I.T.P.) and occupied training places purchased by the Canada Employment and Immigration Commission.

  Provincially sponsored students were those who occupied a training place subsidized by the New Brunswick Department of Community Colleges.

A. EMPLOYMENT BY AGE AND GENDER

The overall employment results of all the respondents improved from the previous year by three percentage points to 58 percent.

Of all the respondents, females again had much better results than males in employment terms. Specifically, 68 percent of female respondents were employed while 52 percent of all male respondents were employed.

Analysis by age reveals that younger males and females had marginally better results in obtaining employment than their older colleagues.

A significantly reduced 12 percent of the respondents indicated no employment since graduation (10 percent of younger and 13 percent of older respondents).

Full-time employment increased substantially to 87 percent of all employed (92 percent of males and 82 percent of females).

TABLE 1
EMPLOYMENT BY AGE AND GENDER

		TOTAL	GENDER	
			Male	Female
RESPONDENTS				
	Total	1,794	1,091	703
	Younger	822	437	385
	Older	972	654	318
EMPLOYED				
	Total	1,045	566	479
	Younger	524	241	283
	Older	521	325	196
EMPLOYED AS % OF RESPONDENTS				
	Total	58	52	68
	Younger	64	55	74
	Older	54	50	62

B. EMPLOYMENT HISTORY

Of the 1,794 respondents, 684 or 38 percent had full-time employment **prior to their studies** at a community college.

Full-time employment prior to their studies was indicated by 45 percent of male and 28 percent of female respondents.

For the older respondents, 52 percent indicated full-time employment prior to their studies (55 percent of males and 44 percent of females), while only 22 percent of all younger respondents reported prior full-time employment.

Thus, we ask, **'does prior full-time employment appear to have increased the likelihood of obtaining work for the graduates?'**

It seems to have helped all older persons, but only marginally. Specifically, 57 percent of the **employed** older persons had prior full-time work compared to 52 percent of all the older respondents.

TABLE 2
FULL-TIME EMPLOYMENT PRIOR TO STUDIES*

FULL-TIME PRIOR EMPLOYMENT	TOTAL	GENDER	
		Male	Female
RESPONDENTS			
Total	38%	45%	28%
Younger	22%	30%	14%
Older	52%	55%	44%
EMPLOYED			
Total	39%	48%	29%
Younger	21%	28%	15%
Older	57%	62%	49%

* All percentage figures relate to 'totals' in the corresponding category as 100 percent.

C. EMPLOYMENT BY EDUCATIONAL BACKGROUND AND SPONSORSHIP

Educational Background

As with the previous year's data, persons with incomplete high school and no further upgrading or training/education experienced a relatively low level of employment, approximately 40 percent.

TABLE 3
RESPONDENTS AND THE EMPLOYED BY HIGHEST LEVEL OF EDUCATION

HIGHEST LEVEL OF EDUCATION	Total Respondents	EMPLOYED	
		Total	% Of Respondents
Grade nine or less	62	26	42%
Incomplete high school	141	56	40%
Academic upgrading	195	114	58%
Completed high school	1,211	742	61%
Other post-secondary	67	39	58%
Some university	108	61	56%
University degree	9	6	67%
No response	1	1	N/A
TOTAL	1,794	1,045	58%

Sponsorship

Approximately 43 percent of the respondents were federally sponsored, while 57 percent were provincially sponsored students (see Tables 4 and 5).

The federal government sponsored relatively fewer females (33 percent) than the province (44 percent).

Of all provincially sponsored respondents, 71 percent were younger (78 percent of the females and 65 percent of the males). The federally sponsored students tended to be older; 87 percent of them were older when enrolled.

The provincial government sponsored only 18 percent of those who had not completed grade 12 nor attempted any academic upgrading (36 of 203).

The provincially sponsored respondents were more likely to be employed than their federally sponsored colleagues (64 percent were employed compared to 51 percent). The worst employment results were evident for federally sponsored older males; only 45 percent were employed.

Among the provincially sponsored respondents, 73 percent of all females were employed. Among the males, 56 percent were employed.

TABLE 4
FEDERALLY (N.I.T.P.) SPONSORED RESPONDENTS BY HIGHEST LEVEL OF EDUCATION

	Total Respondents			Total Employed			Employed As % Of Total Respondents		
	Younger	Older	Total	Younger	Older	Total	Younger	Older	Total
MALES									
Grade 9 or less	8	41	49	4	17	21	50	41	43
Incomplete high school	12	77	89	8	24	32	67	31	36
Some academic upgrading	2	14	16	2	8	10	100	57	63
Completed academic upgrading	5	66	71	3	29	32	60	44	45
Completed high school	36	218	254	18	108	126	50	50	50
Other post-secondary	--	16	16	--	10	10	--	63	63
Some university	1	16	17	1	8	9	100	50	53
University degree	--	3	3	--	1	1	--	33	33
No response	--	--	--	--	--	--	--	--	--
Sub-total	64	451	515	36	205	241	56	45	47
FEMALES									
Grade 9 or less	--	4	4	--	1	1	--	25	25
Incomplete high school	3	22	25	--	10	10	--	45	40
Some academic upgrading	1	5	6	1	4	5	100	80	83
Completed academic upgrading	2	37	39	2	25	27	100	68	69
Completed high school	26	123	149	21	76	97	81	62	65
Other post-secondary	2	13	15	1	6	7	50	46	47
Some university	2	16	18	1	6	7	50	38	39
University degree	--	--	--	--	--	--	--	--	--
No response	--	1	1	--	1	1	--	100	100
Sub-total	36	221	257	26	129	155	72	58	60
TOTAL									
Grade 9 or less	8	45	53	4	18	22	50	40	42
Incomplete high school	15	99	114	8	34	42	53	34	37
Some academic upgrading	3	19	22	3	12	15	100	63	68
Completed academic upgrading	7	103	110	5	54	59	71	52	54
Completed high school	62	341	403	39	184	223	63	54	55
Other post-secondary	2	29	31	1	16	17	50	55	55
Some university	3	32	35	2	14	16	67	44	46
University degree	--	3	3	--	1	1	--	33	33
No response	--	1	1	--	1	1	--	100	100
Sub-total	100	672	772	62	334	396	62	50	51

TABLE 5
PROVINCIALLY SPONSORED RESPONDENTS BY HIGHEST LEVEL OF EDUCATION

	Total Respondents			Total Employed			Employed As % Of Total Respondents		
	Younger	Older	Total	Younger	Older	Total	Younger	Older	Total
MALES									
Grade 9 or less	4	3	7	2	--	2	50	--	29
Incomplete high school	11	11	22	6	5	11	55	45	50
Some academic upgrading	2	3	5	1	2	3	50	67	60
Completed academic upgrading	11	29	40	7	18	25	64	62	63
Completed high school	331	110	441	180	64	244	54	58	55
Other post-secondary	5	14	19	3	10	13	60	71	68
Some university	9	31	40	6	19	25	67	61	63
University degree	--	2	2	--	2	2	--	100	100
No response	--	--	--	--	--	--	--	--	--
Sub-total	373	203	576	205	120	325	55	59	56
FEMALES									
Grade 9 or less	2	--	2	2	--	2	100	--	100
Incomplete high school	4	1	5	3	--	3	75	--	60
Some academic upgrading	--	2	2	--	1	1	--	50	50
Completed academic upgrading	5	11	16	4	7	11	80	64	69
Completed high school	318	49	367	238	37	275	75	76	75
Other post-secondary	6	11	17	2	7	9	33	64	53
Some university	14	19	33	8	12	20	57	63	61
University degree	--	4	4	--	3	3	--	75	75
No response	--	--	--	--	--	--	--	--	--
Sub-total	349	97	446	257	67	324	74	69	73
TOTAL									
Grade 9 or less	6	3	9	4	--	4	67	--	44
Incomplete high school	15	12	27	9	5	14	60	42	52
Some academic upgrading	2	5	7	1	3	4	50	60	57
Completed academic upgrading	16	40	56	11	25	36	69	63	64
Completed high school	649	159	808	418	101	519	64	64	64
Other post-secondary	11	25	36	5	17	22	45	68	61
Some university	23	50	73	14	31	45	61	62	62
University degree	--	6	6	--	5	5	--	83	83
No response	--	--	--	--	--	--	--	--	--
Sub-total	722	300	1,022	462	187	649	64	62	64

D. EMPLOYMENT RELATIONSHIP TO TRAINING

More than half of the employed respondents had jobs related to their training. Age had no significant bearing on whether the employed respondents had a **program related** job or not. However, on the average, females fared better than the males by 21 percentage points (43 percent for males and 64 percent for females).

Approximately 16 percent of employed respondents in each category indicated that their job was **indirectly related.** However, 31 percent of all the employed respondents found jobs **not related** to their studies (43 percent of all males and only 18 percent of all females).

TABLE 6
EMPLOYMENT RELATIONSHIP TO TRAINING

	TOTAL	GENDER	
		Male	Female
EMPLOYED			
Total	1,045	566	479
Younger	524	241	283
Older	521	325	196
Program related			
Total	551	244	307
Younger	277	95	182
Older	274	149	125
Indirectly related			
Total	164	78	86
Younger	88	36	52
Older	76	42	34
* Not at all related			
Total	330	244	86
Younger	159	110	49
Older	171	134	37

* Includes three non-respondents.

E. TEMPORARY/SEASONAL EMPLOYMENT

Of all the employed respondents, 67 percent indicated their job to be of a **permanent** nature, 21 percent indicated a **temporary/seasonal** type of job, while 12 percent were **unsure.**

Male respondents held the largest percentage of temporary/seasonal jobs, 24 percent or 138 of 566. Younger females experienced the least of temporary/seasonal jobs, 14 percent or 39 of 283 employed.

Of all the 216 temporary/seasonal jobs specified, 41 percent were to end within 20 weeks, another 21 percent were to last more than 20 weeks, while for the remaining 38 percent of temporary/seasonal jobs the last day of work was not specified.

	Employed		
	Total	Males	Females
PERMANENT EMPLOYMENT	702	349	353
TEMPORARY/SEASONAL (sub-total) -- present job will end within:	216	138	78
0 - 4 weeks	18	8	10
5 - 8 weeks	20	13	7
9 - 12 weeks	22	13	9
13 - 20 weeks	22	15	7
over 20 weeks	45	26	19
no weeks specified	89	63	26
UNSURE	120	74	46
MISSING DATA	7	5	2
TOTAL EMPLOYMENT	1,045	566	479

F. EMPLOYMENT BY INDUSTRY

The 1,045 employed respondents are spread throughout all the major industrial groups (see Table 7).

The three largest industries by total employment figures were: manufacturing (149), retail trade (145) and other services (145).

The two largest industrial groups where **males** found employment were manufacturing (112) and retail trade (90); for **females** the two largest groups were other services (99) and health and social services (81).

TABLE 7
EMPLOYMENT BY MAJOR INDUSTRIAL GROUPS

SIC Code	Major Industrial Groups	Employed			Younger		Older	
		Total	M	F	M	F	M	F
(range)								
0111-0239	Agriculture	13	11	2	5	2	6	--
0311-0339	Fishing	8	7	1	3	1	4	--
0411-0511	Forestry	19	17	2	9	1	8	1
0611-0929	Mining	9	8	1	3	1	5	--
1011-3999	Manufacturing	149	112	37	42	21	70	16
4010-4499	Construction	58	51	7	18	4	33	3
4511-4799	Transportation & Storage	40	29	11	9	8	20	3
4811-4999	Communication & Other Util.	23	14	9	7	6	7	3
5011-5999	Wholesale Trade	46	33	13	14	8	19	5
6011-6921	Retail Trade	145	90	55	53	38	37	17
7011-7611	Finance, Insurance & Real Estate	53	10	43	2	28	8	15
7711-7799	Business Service	62	30	32	11	19	19	13
8111-8411	Government Service	86	48	38	24	26	24	12
8511-8599	Educational Service	19	10	9	3	7	7	2
8611-8699	Health and Social Service	108	27	81	7	35	20	46
9111-9221	Accommodation, Food & Beverage	62	23	39	13	21	10	18
9611-9999	Other Service	145	46	99	18	57	28	42
-----	All Other, Unclassified	--	--	--	--	--	--	--
	TOTAL EMPLOYMENT	1,045	566	479	241	283	325	196

G. EMPLOYMENT BY OCCUPATION

The data for employment by major occupational groups (see Table 8) clearly indicate that **clerical** and **service** occupations account for 73 percent of all female jobs. Males tended to find work in a wider range of occupational areas, the largest occupational group, being **fabrication** occupations, with 20 percent of all male jobs.

Table 9 is a listing of individual occupations in which at least five persons of either gender were employed.

TABLE 8
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUPS

SOC Code	Major Occupational Groups	Employed			Younger		Older	
		Total	M	F	M	F	M	F
11	Managerial, Admin.	16	11	5	5	4	6	1
21	Natural Sciences, Engineering	60	41	19	19	14	22	5
23	Social Sciences	25	7	18	1	6	6	12
25	Religion	--	--	--	--	--	--	--
27	Teaching	9	4	5	--	3	4	2
31	Medicine and Health	45	11	34	4	14	7	20
33	Arts and Recreation	12	7	5	2	3	5	2
41	Clerical	269	38	231	21	143	17	88
51	Sales	79	56	23	31	14	25	9
61	Service	185	65	120	31	73	34	47
71	Farming	12	11	1	3	1	8	--
73	Fishing	4	4	--	1	--	3	--
75	Forestry and Logging	11	11	--	6	--	5	--
77	Mining	1	1	--	--	--	1	--
81	Processing	44	39	5	12	2	27	3
83	Machining	41	41	--	14	--	27	--
85	Fabrication	120	111	9	47	4	64	5
87	Construction	61	59	2	26	1	33	1
91	Transport Equipment Oper.	16	15	1	4	1	11	--
93	Material Handling	20	20	--	10	--	10	--
95	Other Crafts	13	13	--	3	--	10	--
--	Unclassified Occupations	2	1	1	1	--	--	1
	TOTAL EMPLOYMENT	1,045	566	479	241	283	325	196

TABLE 9
EMPLOYMENT BY MAJOR OCCUPATIONS*

SOC Code	Occupation	Employed	Younger	Older
	MALES			
2163	Draughting	5	3	2
2165	Engineering Technologists	24	10	14
2183	Computer Programmers	6	4	2
2339	Mental Retardation Counsellors	6	1	5
3134	Registered Nursing Assistants	6	2	4
4131	Bookkeeping and Accounting Clerks	14	10	4
4153	Shipping and Receiving Clerks	9	3	6
5130	Sales Supervisors	8	4	4
5135	Sales Clerks	27	21	6
5193	Route Drivers	5	1	4
6115	Guards	14	5	9
6121	Cooks	13	9	4
6191	Janitors, Cleaners	14	6	8
7185	Crop Farm Workers	7	2	5
8228	Labourers, Food & Beverage Processing	7	1	6
8231	Sawmill Sawyers	7	2	5
8238	Labourers in Sawmills	6	2	4
8258	Labourers in Pulp and Paper	8	4	4
8313	Machinists	7	3	4
8335	Welders	25	11	14
8533	Electrical Repair	13	5	8
8535	Electronic Repair	13	8	5
8581	Motor Vehicle Mechanics	32	17	15
8584	Heavy Equipment/Industrial Mech.	30	7	23
8733	Construction Electricians	9	4	5
8781	Carpenters	13	4	9
8798	Construction Labourers	15	10	5
9175	Truck Drivers	11	3	8
9318	Labourers, Material Handling	11	7	4
9531	Stationary Engineers	11	2	9
	SUB-TOTAL	376	171	205

Table 9 Continued

SOC Code	Occupation	Employed	Younger	Older
	FEMALES			
2163	Draughting	5	2	3
2183	Computer Programmers	11	11	--
2339	Mental Retardation Counsellors	16	5	11
3134	Registered Nursing Assistants	25	9	16
3135	Orderlies, Nursing Aides	6	4	2
4111	Secretaries and Stenographers	82	52	30
4113	Typists and Clerk Typists	15	9	6
4131	Bookkeeping and Accounting Clerks	35	23	12
4133	Cashiers and Tellers	33	22	11
4143	Word Processing Equip. Operators	14	10	4
4171	Receptionists	13	6	7
4194	Hotel Clerks	10	5	5
4197	General Office Clerks	12	7	5
5135	Sales Clerks	11	7	4
6120	Supervisors, Food & Beverage Prep.	6	3	3
6121	Cooks	10	7	3
6125	Waitresses	10	6	4
6143	Barbers, Hairdressers	76	45	31
6147	Child Care Workers	8	8	--
	SUB-TOTAL	398	241	157

* Industrial occupations in which five or more persons of either gender were employed.

H. EMPLOYMENT EARNINGS

In the survey, some of the employed respondents did not wish to disclose their average weekly earnings. However, a high 84 percent (764 of 912) of **full-time** employed respondents did report their weekly earnings and hours worked.

An analysis of the full-time employed respondents who indicated their average weekly earnings by program is provided for younger and older full-time employed in Table 10 and by gender in Table 11.

Earnings of full-time employed respondents by occupations can be supplied on request.

I. ADDITIONAL STATISTICS

- Only seven percent of the employed respondents were working outside the province; nine percent of males and five percent of females.

- Extremely poor **program related** employment results were evident in machining, construction and fabrication occupations. For example, the machining occupations include welding, machine shop, sheet metal and tool and die maker programs. In these four programs 280 students graduated of whom 180 responded to this survey. However, only 31 respondents found **program related** employment, with only 41 respondents finding work in this occupational group.

- For all employed respondents, 65 percent expected to remain at their jobs; for those employed in **program related** work, 82 percent expected to remain at their jobs during the next 12 months.

- Approximately two percent of the employed and nine percent of the not employed respondents indicated an intention to pursue further education or training within 12 months of this survey.

- In conclusion, Table 12 depicts the numbers of graduates, the respondents, the employed and those with program related jobs by gender per program surveyed. The programs are listed alphabetically within the sub-sections dealing with technology, pre-employment, business and upgrading programs.

TABLE 10
AVERAGE FULL-TIME WEEKLY EARNINGS BY PROGRAM AND AGE

PROGRAMS	Full-Time Jobs		Full-Time Jobs Of Younger		Full-Time Jobs Of Older	
	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $
Bricklaying	2	563.00	1	600.00	1	525.00
Correctional Security Officer	5	422.00	1	425.00	4	421.00
Sheet Metal Fabrication	1	400.00	--	--	1	400.00
Clerk Typist Upgrading	2	355.00	--	--	2	355.00
Electronic Tech - Communications	16	353.00	12	356.00	4	346.00
Civil Tech - Materials Testing	1	350.00	--	--	1	350.00
Civil Tech - Highway & Municipal	5	347.00	3	317.00	2	393.00
Industrial Mechanics	21	342.00	6	277.00	15	368.00
Electronic Servicing	2	337.00	--	--	2	337.00
Mechanical Technology	14	335.00	9	279.00	5	435.00
Nursing Orderly	4	329.00	1	350.00	3	322.00
Heavy Equipment Operator	10	325.00	5	279.00	5	371.00
Electronic Tech - Data Systems	12	324.00	4	377.00	8	297.00
Electronic Tech - Industrial	15	321.00	5	275.00	10	344.00
Heavy Equipment Repair	21	317.00	6	305.00	15	322.00
Human Services Counsellor	12	311.00	5	295.00	7	322.00
Welding Upgrading	8	311.00	--	--	8	311.00
Tool and Die Maker	3	307.00	1	200.00	2	360.00
Stationary Engineering	12	307.00	3	227.00	9	333.00
Chemical Technology	6	300.00	3	267.00	3	333.00
Carpentry Upgrading	1	300.00	--	--	1	300.00
* * * * * * *		******		******		******
Pipefitting	17	298.00	4	203.00	13	328.00
Welding	37	294.00	15	242.00	22	329.00
Carpentry	9	293.00	4	255.00	5	323.00
Oil Burner Mechanics	2	293.00	1	160.00	1	425.00
Nursing Assistant	13	291.00	6	290.00	7	292.00
M.V.R. - Truck & Transport	6	291.00	2	350.00	4	261.00
Electricity Industrial/Const.	26	289.00	11	287.00	15	290.00
Business Tech - Marketing	16	289.00	11	283.00	5	303.00
Computer Programming Technology	11	276.00	9	272.00	2	296.00
Mental Retardation Counsellor	7	275.00	2	190.00	5	309.00
Plumbing	7	274.00	1	325.00	6	265.00
Civil Tech - Structural	6	274.00	1	300.00	5	268.00
Machine Shop	14	274.00	11	241.00	3	394.00
Drafting	3	265.00	--	--	3	265.00
Business Tech - Administration	2	264.00	1	288.00	1	240.00
Industrial Instrumentation Tech	4	263.00	1	240.00	3	270.00
Business Tech - Data Processing	13	261.00	12	256.00	1	320.00
Refrigeration & Air Conditioning	7	258.00	3	268.00	4	251.00
Civil Tech - Building Const.	5	252.00	4	242.00	1	288.00

Table 10 Continued

PROGRAMS	Full-Time Jobs		Full-Time Jobs Of Younger		Full-Time Jobs Of Older	
	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $
Stenographic - Bilingual	24	251.00	21	253.00	3	234.00
Word Processing	2	250.00	--	--	2	250.00
* * * * * * * *		******		******		******
Electronic Tech - Instr.&Const.	6	248.00	4	207.00	2	330.00
Upholstery	4	248.00	--	--	4	248.00
Motor Vehicle Repair (Body)	11	245.00	4	305.00	7	212.00
Medical Transcriptionist	2	245.00	1	250.00	1	240.00
Business Tech - Accounting	44	242.00	30	226.00	14	276.00
Medical Secretary	2	241.00	1	140.00	1	341.00
Bookkeeping and Accounting	16	239.00	11	242.00	5	228.00
Electronic Tech - Comm.&Indust.	5	237.00	3	216.00	2	270.00
Psychiatric Attendant	4	237.00	2	293.00	2	182.00
Bank Finance Clerk	3	234.00	3	234.00	--	--
Agriculture	3	231.00	1	185.00	2	255.00
Clerk Typist	20	231.00	10	200.00	10	262.00
Stenography	23	231.00	15	244.00	8	205.00
Civil Tech - Architectural	9	229.00	5	226.00	4	232.00
Clerk Typist - Bilingual	15	228.00	7	240.00	8	218.00
Barbering	22	222.00	11	255.00	11	189.00
Bookkeeping Clerk	35	220.00	15	219.00	20	221.00
Motor Vehicle Repair (Mech)	29	217.00	17	202.00	12	239.00
Shoe Repair	2	216.00	--	--	2	216.00
Electrical Appliance Repair	3	211.00	1	244.00	2	195.00
Cook	15	204.00	7	176.00	8	229.00
Travel Agent	5	201.00	5	201.00	--	--
Civil Tech - Arch & Struct.	1	200.00	1	200.00	--	--
* * * * * * * *		******		******		******
Day Care Worker	4	196.00	3	228.00	1	100.00
Legal Secretary	9	188.00	7	185.00	2	190.00
Accommodation, Food & Beverage	10	185.00	4	200.00	6	176.00
Furniture Factory Worker	2	180.00	2	180.00	--	--
Administration Clerk	9	178.00	6	181.00	3	172.00
Beauty Culture	37	178.00	19	202.00	18	152.00
Cabinet Making and Millwork	3	178.00	3	178.00	--	--
Business Accountancy	3	152.00	1	175.00	2	140.00
Business Education	4	150.00	3	180.00	1	60.00
TOTALS	764	262.06	387	245.92	377	278.63

TABLE 11
AVERAGE FULL-TIME WEEKLY EARNINGS BY PROGRAM AND GENDER

PROGRAMS	Full-Time Jobs		Full-Time Jobs Of Males		Full-Time Jobs Of Females	
	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $
Bricklaying	2	563.00	2	563.00	--	--
Correctional Security Officer	5	422.00	5	422.00	--	--
Sheet Metal Fabrication	1	400.00	1	400.00	--	--
Clerk Typist Upgrading	2	355.00	--	--	2	355.00
Electronic Tech - Communications	16	353.00	16	353.00	--	--
Civil Tech - Materials Testing	1	350.00	1	350.00	--	--
Civil Tech - Highway & Municipal	5	347.00	4	353.00	1	325.00
Industrial Mechanics	21	342.00	21	342.00	--	--
Electronic Servicing	2	337.00	2	337.00	--	--
Mechanical Technology	14	335.00	14	335.00	--	--
Nursing Orderly	4	329.00	3	338.00	1	300.00
Heavy Equipment Operator	10	325.00	10	325.00	--	--
Electronic Tech - Data Systems	12	324.00	10	326.00	2	310.00
Electronic Tech - Industrial	15	321.00	15	321.00	--	--
Heavy Equipment Repair	21	317.00	21	317.00	--	--
Human Services Counsellor	12	311.00	3	328.00	9	305.00
Welding Upgrading	8	311.00	8	311.00	--	--
Tool and Die Maker	3	307.00	3	307.00	--	--
Stationary Engineering	12	307.00	12	307.00	--	--
Chemical Technology	6	300.00	3	367.00	3	234.00
Carpentry Upgrading	1	300.00	1	300.00	--	--
* * * * * * *		******		******		******
Pipefitting	17	298.00	17	298.00	--	--
Welding	37	294.00	37	294.00	--	--
Carpentry	9	293.00	9	293.00	--	--
Oil Burner Mechanics	2	293.00	2	293.00	--	--
Nursing Assistant	13	291.00	1	337.00	12	287.00
M.V.R. - Truck & Transport	6	291.00	6	291.00	--	--
Electricity Industrial/Const.	26	289.00	25	288.00	1	300.00
Business Tech - Marketing	16	289.00	8	320.00	8	259.00
Computer Programming Technology	11	276.00	5	285.00	6	269.00
Mental Retardation Counsellor	7	275.00	4	308.00	3	231.00
Plumbing	7	274.00	7	274.00	--	--
Civil Tech - Structural	6	274.00	4	260.00	2	301.00
Machine Shop	14	274.00	14	274.00	--	--
Drafting	3	265.00	3	265.00	--	--
Business Tech - Administration	2	264.00	--	--	2	264.00
Industrial Instrumentation Tech	4	263.00	4	263.00	--	--
Business Tech - Data Processing	13	261.00	2	323.00	11	250.00
Refrigeration & Air Conditioning	7	258.00	7	258.00	--	--
Civil Tech - Building Const.	5	252.00	5	252.00	--	--

Table 11 Continued

PROGRAMS	Full-Time Jobs		Full-Time Jobs Of Males		Full-Time Jobs Of Females	
	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $
Stenographic - Bilingual	24	251.00	--	--	24	251.00
Word Processing	2	250.00	--	--	2	250.00
* * * * * * * *		******		******		******
Electronic Tech - Instr.&Const.	6	248.00	6	248.00	--	--
Upholstery	4	248.00	3	230.00	1	300.00
Motor Vehicle Repair (Body)	11	245.00	11	245.00	--	--
Medical Transcriptionist	2	245.00	--	--	2	245.00
Business Tech - Accounting	44	242.00	18	270.00	26	222.00
Medical Secretary	2	241.00	--	--	2	241.00
Bookkeeping and Accounting	16	239.00	1	250.00	15	238.00
Electronic Tech - Comm.&Indust.	5	237.00	4	239.00	1	230.00
Psychiatric Attendant	4	237.00	--	--	4	237.00
Bank Finance Clerk	3	234.00	--	--	3	234.00
Agriculture	3	231.00	2	255.00	1	185.00
Clerk Typist	20	231.00	1	150.00	19	235.00
Stenography	23	231.00	2	289.00	21	225.00
Civil Tech - Architectural	9	229.00	2	211.00	7	234.00
Clerk Typist - Bilingual	15	228.00	--	--	15	228.00
Barbering	22	222.00	3	243.00	19	219.00
Bookkeeping Clerk	35	220.00	4	212.00	31	221.00
Motor Vehicle Repair (Mech)	29	217.00	29	217.00	--	--
Shoe Repair	2	216.00	2	216.00	--	--
Electrical Appliance Repair	3	211.00	3	211.00	--	--
Cook	15	204.00	8	186.00	7	225.00
Travel Agent	5	201.00	--	--	5	201.00
Civil Tech - Arch & Struct.	1	200.00	1	200.00	--	--
* * * * * * * *		******		******		******
Day Care Worker	4	196.00	--	--	4	196.00
Legal Secretary	9	188.00	--	--	9	188.00
Accommodation, Food & Beverage	10	185.00	2	192.00	8	184.00
Furniture Factory Worker	2	180.00	2	180.00	--	--
Administration Clerk	9	178.00	--	--	9	178.00
Beauty Culture	37	178.00	--	--	37	178.00
Cabinet Making and Millwork	3	178.00	2	230.00	1	75.00
Business Accountancy	3	152.00	--	--	3	152.00
Business Education	4	150.00	--	--	4	150.00
TOTALS	764	262.06	421	290.96	343	226.60

TABLE 12
PROGRAM ANALYSIS BY GENDER

PROGRAM	Graduates		Respondents		Employed		Program Related	
	Male	Female	Male	Female	Male	Female	Male	Female
TECHNOLOGY/TECHNICAL:								
Business	57	90	48	73	34	58	19	35
Chemical	14	11	11	10	6	4	6	2
Civil	56	23	37	18	18	14	6	3
Computer	7	11	6	8	5	7	2	4
Electronic	104	4	80	4	60	3	33	1
Industrial Instrumentation	16	--	12	--	7	--	1	--
Mechanical	35	--	24	--	15	--	4	--
Agriculture	6	2	6	1	4	1	2	1
Sub-Total	**295**	**141**	**224**	**114**	**149**	**87**	**73**	**46**
PRE-EMPLOYMENT:								
Accommodation, Food & Beverage	7	18	3	10	2	10	2	10
Barbering	7	44	3	31	3	23	3	22
Beauty Culture	2	102	1	79	1	56	1	53
Bricklaying	20	--	16	--	4	--	1	--
Cabinet Making & Millwork	15	1	13	1	6	1	2	--
Carpentry	64	--	36	--	16	--	4	--
Cook	55	32	23	20	14	10	10	6
Correctional Security Worker	13	2	9	1	7	1	6	1
Day Care Worker	--	12	--	8	--	4	--	1
Drafting - General	9	6	5	2	3	--	1	--
Drafting - Marine	10	1	7	1	3	--	--	--
Dressmaking	--	7	--	2	--	1	--	--
Electricity	88	4	60	3	27	1	9	1
Electronic Servicing	10	--	6	--	2	--	1	--
Electric Appliance Repair	12	--	11	--	5	--	2	--
Furniture Factory Worker	12	1	5	--	2	--	1	--
Heavy Equipment Operator	89	2	63	1	25	1	--	1
Heavy Equipment Repair	58	--	44	--	29	--	11	--
Human Services Counsellor	5	25	4	17	4	16	4	13
Industrial Mechanics	70	--	45	--	26	--	9	--
Machine Shop	53	1	41	1	18	--	4	--
Mental Retardation Counsellor	10	12	6	7	4	3	2	2
Motor Vehicle Repair (B)	48	--	36	--	16	--	7	--
Motor Vehicle Repair (M)	81	2	59	--	38	--	23	--
Motor Vehicle Repair (T&T)	13	--	10	--	6	--	4	--
Nursing Orderly	14	5	6	4	6	2	6	2
Oil Burner Service	14	--	7	--	4	--	--	--
Pipefitting	69	1	42	--	20	--	--	--
Plumbing	47	1	34	1	11	--	2	--
Psychiatric Attendant	2	13	2	9	2	4	1	2

Table 12 Continued

PROGRAM	Graduates		Respondents		Employed		Program Related	
	Male	Female	Male	Female	Male	Female	Male	Female
Refrigeration & Air Condition	25	--	17	--	10	--	7	--
Registered Nursing Assistant	2	84	1	34	1	27	1	25
Sheet Metal	10	--	8	--	2	--	1	--
Shoe Repair	4	--	3	--	2	--	1	--
Stationary Engineer	47	--	34	--	20	--	11	--
Tool and Die Making	9	--	6	--	3	--	2	--
Travel Agent	--	14	--	11	--	10	--	3
Upholstery	7	3	5	2	3	1	2	--
Welding	203	4	123	1	45	--	19	--
Sub-Total	**1,204**	**397**	**794**	**246**	**390**	**171**	**160**	**142**
BUSINESS EDUCATION:								
Administration Clerk	--	40	--	28	--	13	--	6
Bank and Finance Clerk	4	22	3	14	--	8	--	6
Bookkeeping Clerk	12	73	9	48	5	37	1	17
Bookkeeping/Accounting Clerk	3	22	3	21	1	18	1	4
Business Accountancy	2	14	1	13	1	6	--	1
Business Education	4	35	1	18	--	10	--	2
Clerk Typist	2	84	2	47	1	29	--	16
Clerk Typist-Bilingual	--	37	--	29	--	17	--	12
Legal Secretary	--	22	--	12	--	11	--	6
Medical Secretary	--	26	--	6	--	5	--	3
Medical Transcriptionist	--	9	--	6	--	2	--	1
Stenography	8	88	3	55	2	29	1	18
Senography-Bilingual	--	40	--	31	--	28	--	25
Word Processing	--	29	--	7	--	4	--	1
Sub-Total	**35**	**541**	**22**	**335**	**10**	**217**	**3**	**118**
UPGRADING:								
Carpentry	14	--	10	--	1	--	1	--
Clerk Typist/Senographer	--	29	--	1	--	--	--	--
Clerk Typist	--	7	--	5	--	3	--	1
Stenography	--	2	--	2	--	1	--	--
Welding	60	--	41	--	16	--	7	--
Sub-Total	**74**	**38**	**51**	**8**	**17**	**4**	**8**	**1**
TOTAL	**1,608**	**1,117**	**1,091**	**703**	**566**	**479**	**244**	**307**

MARITIME PROVINCES GRADUATE FOLLOW-UP SURVEY
NEW BRUNSWICK COMMUNITY COLLEGES
GRADUATES OF THE 1981-82 SCHOOL YEAR SURVEYED IN MARCH, 1983

ANALYSIS BY AGE AND GENDER

TRAINING AND HUMAN RESOURCES DEVELOPMENT BRANCH
N.B. DEPARTMENT OF LABOUR AND HUMAN RESOURCES
P.O. BOX 6000, FREDERICTON, N.B. E3B 5H1
FEBRUARY, 1985

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INTRODUCTION

The purpose of the Maritime Provinces Graduate Follow-up Survey is to gather labour market information on the employment situation of Community College graduates nine months after graduation. Employment results and the general labour market experiences of our graduates are vital pieces of information in measuring the outcomes of the training programs.

This report deals with the New Brunswick component of the Maritime Provinces' student follow-up process which has involved the New Brunswick Department of Community Colleges and Department of Labour and Human Resources, the Prince Edward Island Department of Industry and the Nova Scotia Department of Labour and Manpower. The questionnaire used was similar in the three Maritime Provinces.

A mail-out survey was sent in March, 1983 to 2,414 graduates of specific programs from New Brunswick Community Colleges for the 1981-82 school year (most of whom graduated in June, 1982). A high (70 percent) response rate was achieved, making the data statistically significant.

For the purpose of this report, the analysis focused on two elements, the **age** and **gender** of the respondents and how these related to employment, education and earnings.

Users should note that a number of respondents did not answer all questions. Also, the statistics for some programs are based only on a small number of respondents. Hence, the results should be interpreted with caution and judgement.

GLOSSARY OF TERMS

GRADUATES:

- the number of persons who successfully completed their program of study during the 12 months ending June 30, 1982 at New Brunswick Community Colleges and to whom the questionnaire was sent (total of 2,414).

RESPONDENTS:

- all graduates who returned a completed survey questionnaire that was deemed usable for analysis (total of 1,695).

EMPLOYED:

- all respondents who indicated that they were employed in March, 1983 (total of 933).

PROGRAM RELATED:

- the employed respondent considered his/her job to be directly dependent on the skills and knowledge acquired from the program completed. Otherwise the occupation of the employed respondent can be classified as indirectly related or not related to the completed program.

YOUNGER:

- respondents who were 19 years of age or less at the time of enrolment.

OLDER:

- respondents who were 20 years of age or more at the time of enrolment.

FULL-TIME EMPLOYED:

- employed respondents who worked 30 hours per week or more at the time of the survey (761 employed or 82 percent).

EARNINGS:

- the weekly earnings as specified by 87 percent of all full-time employed respondents. Within this report, these weekly earnings statistics were aggregated by specific programs to yield the average weekly earnings.

OCCUPATIONS:

- the type of work performed at the place of employment as reported by the employed respondent. Each response was assigned a 4-digit code based on the 1980 Standard Occupational Classification (S.O.C.) of Statistics Canada.

INDUSTRIES:

- the nature of the business, enterprise or industry of the employer identified by the employed respondent. A 4-digit code was assigned to the industry, based on the 1980 Standard Industry Classification (S.I.C.) of Statistics Canada.

SPONSORSHIP:

- federally sponsored students refer to those who were selected for training under the terms of the National Training Act (National Institutional Training Program or N.I.T.P.) and occupied training places purchased by the Canada Employment and Immigration Commission.

  Provincially sponsored students were those who occupied a training place subsidized by the New Brunswick Department of Community Colleges.

A. EMPLOYMENT BY AGE AND GENDER

Of all the respondents, females had much better results than males in employment terms. Specifically, 64 percent of female respondents were employed while 49 percent of all male respondents were employed.

Analysis by age reveals that younger males and females had marginally better results in obtaining employment than their older colleagues.

A significant 18 percent of the respondents indicated no employment since graduation (14 percent of younger and 21 percent of older respondents).

Full-time employed included 82 percent of all employed (85 percent of males and 78 percent of females).

TABLE 1
EMPLOYMENT BY AGE AND GENDER

	TOTAL	GENDER	
		Male	Female
RESPONDENTS			
Total	1,695	1,001	694
Younger	738	362	376
Older	957	639	318
EMPLOYED			
Total	933	490	443
Younger	438	189	249
Older	495	301	194
EMPLOYED AS % OF RESPONDENTS			
Total	55%	49%	64%
Younger	59%	52%	66%
Older	52%	47%	61%

B. EMPLOYMENT HISTORY

Of the 1,695 respondents, 610 or 36 percent had full-time employment **prior to their studies** at a community college.

Full-time employment prior to their studies was indicated by 40 percent of the male and 30 percent of the female respondents.

For the older respondents, 46 percent of both males and females indicated full-time employment prior to their studies, while only 23 percent of all younger respondents reported prior full-time employment.

Thus, we ask, **'does prior full-time employment appear to have increased the likelihood of obtaining work for the graduates?'**

It seems to have helped only the older females and even then only marginally. Specifically, 53 percent of the **employed** older females had prior full-time work compared to 46 percent of all the older female respondents.

TABLE 2
FULL-TIME EMPLOYMENT PRIOR TO STUDIES*

FULL-TIME PRIOR EMPLOYMENT	TOTAL	GENDER	
		Male	Female
RESPONDENTS			
Total	36%	40%	30%
Younger	23%	29%	16%
Older	46%	46%	46%
EMPLOYED			
Total	34%	34%	33%
Younger	23%	30%	18%
Older	43%	37%	53%

* All percentage figures relate to 'totals' in the corresponding category as 100 percent.

C. EMPLOYMENT BY EDUCATIONAL BACKGROUND AND SPONSORSHIP

Educational Background

As expected, the higher the level of prior education the greater was the likelihood of securing employment after graduation (see Table 3).

TABLE 3
RESPONDENTS AND THE EMPLOYED BY HIGHEST LEVEL OF EDUCATION

HIGHEST LEVEL OF EDUCATION	Total Respondents	EMPLOYED	
		Total	% Of Respondents
Grade nine or less	104	40	38%
Incomplete high school	171	66	39%
Academic upgrading	101	50	50%
High school	1,107	634	57%
Other post-secondary	80	51	64%
Some university	91	66	73%
University degree	12	9	75%
No response	29	17	N/A
TOTAL	1,695	933	55%

Sponsorship

Approximately half of the respondents were federally sponsored and half were provincially sponsored students (see Tables 4 and 5).

The federal government sponsored relatively fewer females (35 percent) than the province (47 percent).

Of all provincially sponsored respondents, 72 percent were younger (84 percent of the females and 61 percent of the males). The federally sponsored students tended to be older; 85 percent of all respondents were older when enrolled.

The provincial government sponsored only 11 percent of those who had not completed grade 12 (42 of 376).

The provincially sponsored respondents were more likely to be employed than their federally sponsored colleagues (64 percent were employed compared to 45 percent). The worst employment results were evident for federally sponsored males of both age groups; only 39 percent were employed.

Among the provincially sponsored respondents, older females were most likely to be employed, at 78 percent. Among the older males 66 percent were employed. Employment for younger respondents was 10 percentage points lower for each gender.

TABLE 4
FEDERALLY (N.I.T.P.) SPONSORED RESPONDENTS BY HIGHEST LEVEL OF EDUCATION

	Total Respondents			Total Employed			Total Employed As % Of Total Respondents
	Younger	Older	Total	Younger	Older	Total	
							%
MALES							
Grade 9 or less	17	53	70	6	19	25	36
Incomplete high school	20	82	102	4	29	33	32
Academic upgrading	1	50	51	--	24	24	47
Complete high school	46	217	263	23	78	101	38
Other post-secondary	--	25	25	--	16	16	64
Some university	1	14	15	--	8	8	53
University degree	--	2	2	--	2	2	100
No response	--	14	14	--	5	5	36
	85	457	542	33	181	214	39
FEMALES							
Grade 9 or less	2	25	27	1	10	11	41
Incomplete high school	4	47	51	1	25	26	51
Academic upgrading	1	32	33	--	17	17	52
Complete high school	28	104	132	17	61	78	59
Other post-secondary	3	20	23	2	15	17	74
Some university	3	24	27	3	15	18	67
University degree	--	1	1	--	--	--	--
No response	--	2	2	--	2	2	100
	41	255	296	24	145	169	57
TOTAL							
Grade 9 or less	19	78	97	7	29	36	37
Incomplete high school	24	129	153	5	54	59	38
Academic upgrading	2	82	84	--	41	41	49
Complete high school	74	321	395	40	139	179	45
Other post-secondary	3	45	48	2	31	33	69
Some university	4	38	42	3	23	26	62
University degree	--	3	3	--	2	2	67
No response	--	16	16	--	7	7	44
	126	712	838	57	326	383	45

TABLE 5
PROVINCIALLY SPONSORED RESPONDENTS BY HIGHEST LEVEL OF EDUCATION

	Total Respondents			Total Employed			Total Employed As % Of Total Respondents
	Younger	Older	Total	Younger	Older	Total	
MALES							
Grade 9 or less	5	3	8	2	1	3	38
Incomplete high school	4	11	15	2	5	7	47
Academic upgrading	4	8	12	1	6	7	58
Complete high school	257	105	362	146	69	215	60
Other post-secondary	1	18	19	1	10	11	58
Some university	3	32	35	2	26	28	80
University degree	--	5	5	--	3	3	60
No response	3	--	3	2	--	2	67
	277	182	459	156	120	276	60
FEMALES							
Grade 9 or less	1	--	1	1	--	1	100
Incomplete high school	1	--	1	--	--	--	--
Academic upgrading	--	5	5	--	2	2	40
Complete high school	316	34	350	212	28	240	69
Other post-secondary	4	9	13	2	5	7	54
Some university	4	10	14	3	9	12	86
University degree	--	4	4	--	4	4	100
No response	9	1	10	7	1	8	80
	335	63	398	225	49	274	69
TOTAL							
Grade 9 or less	6	3	9	3	1	4	57
Incomplete high school	5	11	16	2	5	7	44
Academic upgrading	4	13	17	1	8	9	53
Complete high school	573	139	712	358	97	455	64
Other post-secondary	5	27	32	3	15	18	56
Some university	7	42	49	5	35	40	82
University degree	--	9	9	--	7	7	78
No response	12	1	13	9	1	10	77
	612	245	857	381	169	550	64

D. EMPLOYMENT RELATIONSHIP TO TRAINING

More than half of the employed respondents had jobs related to their training. Age had no significant bearing on whether the employed respondents had a **program related** job or not. However, on the average, females fared better than the males by 14 percentage points (46 percent for males and 60 percent for females).

Less than 20 percent of employed respondents in each category indicated that their job was **indirectly related.** However, 31 percent of all the employed respondents found jobs **not related** to their studies.

TABLE 6
EMPLOYMENT RELATIONSHIP TO TRAINING

	TOTAL	GENDER	
		Male	Female
EMPLOYED			
Total	933	490	443
Younger	438	189	249
Older	495	301	194
Program related			
Total	491	225	266
Younger	228	86	142
Older	263	139	124
Indirectly related			
Total	157	71	86
Younger	72	24	48
Older	85	47	38
Not related			
Total	285	194	91
Younger	138	79	59
Older	147	115	32

E. TEMPORARY/SEASONAL EMPLOYMENT

Of all the employed respondents, 28 percent indicated that their jobs were temporary/seasonal in nature.

Younger males held the largest percentage of temporary/seasonal jobs, 34 percent or 64 of 189.

	Temporary/Seasonal		
	Total	Male	Female
Total employed	28%	31%	25%
Younger	29%	34%	24%
Older	27%	29%	25%

The timing of the survey yielded a relatively lower employment level for temporary/seasonal jobs than would be the case during the summer months.

F. EMPLOYMENT BY INDUSTRY

The 933 employed respondents are spread throughout all the major industrial groups (see Table 7).

The three largest industries by total employment figures were: retail trades (155), health and social services (128) and manufacturing (108).

The three largest industrial groups where males found employment were: retail trade (100), manufacturing (78) and construction (52). The three major industrial groups were females found employment were: health and social services (93), other services (67) and government services (56).

TABLE 7
EMPLOYMENT BY MAJOR INDUSTRIAL GROUPS

SIC Code	Major Industrial Groups	Employed			Younger		Older	
		Total	M	F	M	F	M	F
(range)								
0111-0239	Agriculture	10	8	2	6	2	2	--
0311-0339	Fishing	1	1	--	--	--	1	--
0411-0511	Forestry	12	10	2	4	2	6	--
0611-0929	Mining	11	9	2	3	1	6	1
1011-3999	Manufacturing	108	78	30	20	19	58	11
4010-4499	Construction	58	52	6	23	3	29	3
4511-4799	Transportation & Storage	21	12	9	6	4	6	5
4811-4999	Communication & Other Util.	12	10	2	3	1	7	1
5011-5999	Wholesale Trade	26	22	4	10	3	12	1
6011-6921	Retail Trade	155	100	55	49	33	51	22
7011-7611	Finance, Insurance & Real Estate	48	14	34	7	22	7	12
7711-7799	Business Service	53	24	29	9	19	15	10
8111-8411	Government Service	97	41	56	19	33	22	23
8511-8599	Educational Service	27	14	13	2	8	12	5
8611-8699	Health and Social Service	128	35	93	8	38	27	55
9111-9221	Accommodation, Food & Beverage	61	22	39	9	23	13	16
9611-9999	Other Service	99	32	67	9	38	23	29
-----	All Other, Unclassified	6	6	--	2	--	4	--
		933	490	443	189	249	301	194

G. EMPLOYMENT BY OCCUPATION

The data for employment by major occupational groups (see Table 8) clearly indicate that **clerical, service** and **health** occupations account for 83 percent of all female jobs. Males tended to find work in a wider range of occupational areas.

On the next page, table 9 is a listing of individual occupations in which at least five persons of either gender were employed.

TABLE 8
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUPS

SOC Code	Major Occupational Groups	Employed			Younger		Older	
		Total	M	F	M	F	M	F
11	Managerial, Admin.	9	6	3	5	--	1	3
21	Natural Sciences, Engineering	72	56	16	24	12	32	4
23	Social Sciences	16	3	13	1	4	2	9
25	Religion	--	--	--	--	--	--	--
27	Teaching	10	5	5	--	4	5	1
31	Medicine and Health	63	15	48	3	20	12	28
33	Arts and Recreation	5	4	1	1	1	3	--
41	Clerical	268	38	230	20	144	18	86
51	Sales	86	58	28	22	17	36	11
61	Service	141	52	89	15	44	37	45
71	Farming	6	6	--	3	--	3	--
73	Fishing	1	1	--	--	--	1	--
75	Forestry and Logging	9	8	1	3	1	5	--
77	Mining	--	--	--	--	--	--	--
81	Processing	21	18	3	6	--	12	3
83	Machining	31	31	--	11	--	20	--
85	Fabrication	82	77	5	28	2	49	3
87	Construction	59	59	--	26	--	33	--
91	Transport Equipment Oper.	16	16	--	7	--	9	--
93	Material Handling	19	19	--	7	--	12	--
95	Other Crafts	13	13	--	4	--	9	--
--	Unclassified Occupations	6	5	1	3	--	2	1
	Total	933	490	443	189	249	301	194

TABLE 9
EMPLOYMENT BY MAJOR OCCUPATIONS*

SOC Code	Occupation	Employed	Younger	Older
	MALES			
2163	Draughting	12	6	6
2165	Engineering Technologists	31	13	18
2183	Computer Programmers	6	3	3
3135	Orderlies, Nursing Aides	8	2	6
4131	Bookkeeping and Accounting Clerks	15	9	6
4155	Stock Clerks	10	5	5
5131	Technical Salesmen	6	1	5
5133	Salesmen	9	4	5
5135	Sales Clerks	24	12	12
6121	Cooks	14	6	8
6191	Janitors, Cleaners	9	2	7
8335	Welders	19	4	15
8533	Electrical Repair	12	2	10
8581	Motor Vehicle Mechanics	27	16	11
8584	Heavy Equipment/Industrial Mech.	11	2	9
8733	Construction Electricians	11	7	4
8781	Carpenters	13	7	6
8791	Plumbers, Pipefitters	7	2	5
9318	Labourers, Material Handling	16	6	10
9533	Stationary Engineers	9	1	8
	SUB-TOTAL	273	110	163
	FEMALES			
2165	Engineering Technologists	7	6	1
2183	Computer Programmers	7	5	2
2339	Mental Retardation Counsellors	11	3	8
3134	Registered Nursing Assistant	37	16	21
4111	Secretaries and Stenographers	83	54	29
4113	Typists and Clerk Typists	30	15	15
4131	Bookkeeping and Accounting Clerks	37	22	15
4133	Cashiers and Tellers	23	19	4
4143	Word Processing Equip. Operators	9	7	2
4171	Receptionists	11	7	4
5135	Sales Clerks	19	11	8
6121	Cooks	8	3	5
6125	Waitresses	11	6	5
6143	Barbers, Hairdressers	47	23	24
	SUB-TOTAL	340	197	143

* Individual occupations in which five or more persons of either gender were employed.

H. EMPLOYMENT EARNINGS

In the survey, some of the employed respondents did not wish to disclose their average weekly earnings. However, a high 87 percent (662 of 761) of **full-time** employed respondents did report their average weekly earnings.

An analysis of the full-time employed respondents who indicated their average weekly earnings by program is provided for younger and older full-time employed in Table 10 and by gender in Table 11.

Earnings of full-time employed respondents by occupations can be supplied on request.

I. ADDITIONAL STATISTICS

- Only seven percent of the employed respondents were working outside the province; nine percent of males and five percent of females.

- A significant 14 percent of all older males with program related employment were working outside of New Brunswick.

- Extremely poor **program related** employment results were evident in machining, construction and fabrication occupations. For example, the machining occupations include welding, machine shop, sheet metal and tool and die maker programs. In these four programs 271 students graduated of whom 174 responded to this survey. However, only 18 respondents found **program related** employment, with only 31 respondents finding work in this occupational group.

- For all employed respondents, two thirds expected to remain at their jobs; for those employed in **program related** work, 80 percent expected to remain at their jobs during the next 12 months.

- Approximately five percent of the employed and 10 percent of the not employed respondents indicated an intention to pursue further education or training within 12 months of this survey.

- In conclusion, Table 12 depicts the numbers of graduates, the respondents, the employed and those with program related jobs by gender per program surveyed. The programs are listed alphabetically within the sub-sections dealing with technology, pre-employment, business and upgrading programs.

TABLE 10
AVERAGE FULL-TIME WEEKLY EARNINGS BY PROGRAM AND AGE

PROGRAMS	Full-Time Jobs		Full-Time Jobs Of Younger		Full-Time Jobs Of Older	
	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $
Welding Upgrading	7	498.00	--	--	7	498.00
Typing - Basic	1	436.00	--	--	1	436.00
Computer Programming Technology	5	370.00	5	370.00	--	--
Nursing Assistant Upgrading	7	366.00	--	--	7	366.00
Chemical Technology	4	355.00	3	349.00	1	370.00
Heavy Equipment Operator	23	349.00	4	212.00	19	378.00
Industrial Mechanics	14	349.00	5	223.00	9	418.00
Industrial Instrumentation Tech.	4	313.00	1	470.00	3	260.00
Stationary Engineering	10	309.00	2	318.00	8	307.00
Heavy Equipment Repair	13	305.00	5	322.00	8	294.00
* * * * *		*******		*******		*******
Nursing Orderly	9	298.00	2	325.00	7	290.00
Electronic Technology	36	293.00	17	269.00	19	315.00
Machine Shop	11	287.00	8	270.00	3	333.00
Mechanical Technology	13	285.00	4	252.00	9	300.00
Refrigeration & Air Conditioning	3	284.00	2	262.00	1	330.00
Pipefitting	15	284.00	6	207.00	9	336.00
Medical Transcriptionist	5	284.00	4	277.00	1	311.00
Mental Retardation Counsellor	13	284.00	4	295.00	9	279.00
Word Processing	2	282.00	--	--	2	282.00
Civil Technology	27	279.00	14	260.00	13	299.00
Welding	21	276.00	9	239.00	12	304.00
Cabinet Making and Millwork	4	268.00	3	190.00	1	500.00
Stenographic - Bilingual	16	266.00	14	254.00	2	350.00
Electricity	29	264.00	13	243.00	16	281.00
Carpentry	12	253.00	6	220.00	6	287.00
* * * * *		*******		*******		*******
Furniture Factory Worker	2	249.00	--	--	2	249.00
Bricklaying	2	248.00	--	--	2	248.00
Nursing Assistant	15	245.00	9	266.00	6	214.00
Business Technology	88	243.00	57	222.00	31	283.00
Drafting	5	242.00	2	230.00	3	250.00
Electronic Servicing	11	240.00	4	246.00	7	237.00
Oil Burner Mechanics	4	238.00	--	--	4	238.00
Bank Finance Clerk	5	232.00	3	191.00	2	293.00
Clerk Typist Upgrading	2	227.00	--	--	2	227.00
Bookkeeping And Accounting	5	226.00	2	180.00	3	257.00
Bookkeeping Clerk	15	215.00	8	179.00	7	256.00
Plumbing	6	213.00	3	217.00	3	208.00
Medical Secretary	11	209.00	8	219.00	3	183.00
Clerk Typist - Bilingual	9	208.00	7	213.00	2	190.00
Stenography	38	208.00	14	196.00	24	215.00
Business Education	13	206.00	8	186.00	5	240.00
Motor Vehicle Repair (Mech.)	19	205.00	18	205.00	1	220.00
Legal Secretary	17	203.00	15	202.00	2	212.00
Tool and Die Maker	3	202.00	--	--	3	202.00
Clerk Typist	17	201.00	8	192.00	9	210.00
Upholstery	5	200.00	--	--	5	200.00
Accommodation, Food & Beverage	6	200.00	3	144.00	3	256.00
* * * * *		*******		*******		*******
Motor Vehicle Repair (Body)	3	197.00	--	--	3	197.00
Barbering	7	181.00	3	230.00	4	144.00
Cook	13	181.00	5	186.00	8	177.00
Industrial Refrigeration	3	170.00	2	165.00	1	180.00
Beauty Culture	26	167.00	10	165.00	16	186.00
Electrical Appliance Repair	2	166.00	1	182.00	1	150.00
Travel Agent	2	150.00	1	150.00	1	150.00
Dressmaking	3	117.00	--	--	3	117.00
Agriculture	1	100.00	-	--	1	100.00
TOTAL	662	$253.47	322	$229.83	340	275.85

TABLE 11
AVERAGE FULL-TIME WEEKLY EARNINGS BY PROGRAM AND GENDER

PROGRAMS	Full-Time Jobs		Full-Time Jobs Of Males		Full-Time Jobs Of Females	
	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $	Total Respon-dents	Average Earnings $
Welding Upgrading	7	498.00	7	498.00	--	--
Typing - Basic	1	436.00	--	--	1	436.00
Computer Programming Technology	5	370.00	--	--	5	370.00
Nursing Assistant Upgrading	7	366.00	3	318.00	4	401.00
Chemical Technology	4	355.00	2	385.00	2	324.00
Heavy Equipment Operator	23	349.00	23	349.00	--	--
Industrial Mechanics	14	349.00	14	349.00	--	--
Industrial Instrumentation Tech.	4	313.00	4	313.00	--	--
Stationary Engineering	10	309.00	10	309.00	--	--
Heavy Equipment Repair	13	305.00	13	305.00	--	--
* * * * *		*******		*******		*******
Nursing Orderly	9	298.00	6	300.00	3	293.00
Electronic Technology	36	293.00	34	297.00	2	231.00
Machine Shop	11	287.00	11	287.00	--	--
Mechanical Technology	13	285.00	13	285.00	--	--
Refrigeration & Air Conditioning	3	284.00	3	284.00	--	--
Pipefitting	15	284.00	15	284.00	--	--
Medical Transcriptionist	5	284.00	--	--	5	284.00
Mental Retardation Counsellor	13	284.00	3	401.00	10	248.00
Word Processing	2	282.00	--	--	2	282.00
Civil Technology	27	279.00	25	287.00	2	180.00
Welding	21	276.00	21	276.00	--	--
Cabinet Making and Millwork	4	268.00	3	290.00	1	200.00
Stenographic - Bilingual	16	266.00	--	--	16	266.00
Electricity	29	264.00	29	264.00	--	--
Carpentry	12	253.00	12	253.00	--	--
* * * * *		*******		*******		*******
Furniture Factory Worker	2	249.00	1	194.00	1	304.00
Bricklaying	2	248.00	2	248.00	--	--
Nursing Assistant	15	245.00	--	--	15	245.00
Business Technology	88	243.00	32	279.00	56	223.00
Drafting	5	242.00	3	243.00	2	240.00
Electronic Servicing	11	240.00	11	240.00	--	--
Oil Burner Mechanics	4	238.00	4	238.00	--	--
Bank Finance Clerk	5	232.00	2	276.00	3	202.00
Clerk Typist Upgrading	2	227.00	--	--	2	227.00
Bookkeeping And Accounting	5	226.00	1	200.00	4	233.00
Bookkeeping Clerk	15	215.00	1	135.00	14	221.00
Plumbing	6	213.00	6	213.00	--	--
Medical Secretary	11	209.00	--	--	11	209.00
Clerk Typist - Bilingual	9	208.00	--	--	9	208.00
Stenography	38	208.00	--	--	38	208.00
Business Education	13	206.00	--	--	13	206.00
Motor Vehicle Repair (Mech.)	19	205.00	19	205.00	--	--
Legal Secretary	17	203.00	--	--	17	203.00
Tool and Die Maker	3	202.00	3	202.00	--	--
Clerk Typist	17	201.00	--	--	17	201.00
Upholstery	5	200.00	4	200.00	1	200.00
Accommodation, Food & Beverage	6	200.00	3	236.00	3	164.00
* * * * *		*******		*******		*******
Motor Vehicle Repair (Body)	3	197.00	3	197.00	--	--
Barbering	7	181.00	2	193.00	5	176.00
Cook	13	181.00	8	197.00	5	155.00
Industrial Refrigeration	3	170.00	3	170.00	--	--
Beauty Culture	26	167.00	1	275.00	25	162.00
Electrical Appliance Repair	2	166.00	2	166.00	--	--
Travel Agent	2	150.00	--	--	2	150 00
Dressmaking	3	117.00	--	--	3	117.00
Agriculture	1	100.00	1	100.00	--	--
TOTAL	662	$253.47	363	280.81	299	220.20

PROGRAM ANALYSIS BY GENDER

PROGRAM	Graduates		Respondents		Employed		Program Related	
	Male	Female	Male	Female	Male	Female	Male	Female
TECHNOLOGY/TECHNICAL:								
Business	66	111	48	90	39	68	23	33
Chemical	11	6	6	4	4	3	3	1
Civil	62	8	47	6	28	6	15	3
Computer	3	16	2	12	1	7	1	5
Electronic	93	3	65	3	41	3	23	2
Industrial Instrumentation	17	--	12	--	7	--	4	--
Mechanical	31	--	21	--	14	--	9	--
Recreation	2	1	1	1	--	--	--	--
Agriculture	7	1	3	1	1	--	1	--
PRE-EMPLOYMENT:								
Accommodation, Food & Beverage	5	7	3	5	3	5	3	4
Aquaculture	7	1	5	--	1	--	1	--
Barbering	12	38	5	22	3	11	3	10
Beauty Culture	2	107	1	67	1	41	1	37
Bricklaying	23	--	15	--	3	--	1	--
Cabinet Making & Millwork	18	2	13	1	5	1	2	1
Carpentry	81	3	59	1	17	--	7	--
Cook	30*	24*	20	16	10	7	8	5
Drafting	11	5	6	4	3	3	2	1
Dressmaking	--	17	--	13	--	4	--	--
Electricity	80	--	61	--	38	--	20	--
Electronic Servicing	27	2	21	2	12	1	6	--
Electric Appliance Repair	13	--	8	--	3	--	1	--
Furniture Factory Worker	5	1	5	1	1	1	--	--
Heavy Equipment Operator	100	1	70	--	35	--	7	--
Heavy Equipment Repair	54	--	40	--	22	--	8	--
Industrial Refrigeration	14	--	10	--	5	--	1	--
Industrial Mechanics	61	--	44	--	19	--	1	--
Machine Shop	65	--	38	--	17	--	5	--
Mental Retardation Counsellor	6	35	4	23	4	15	3	13
Motor Vehicle Repair (B)	38	--	23	2	5	--	3	--
Motor Vehicle Repair (M)	79	--	58	--	28	--	12	--
Nursing Orderly	12	4	10	3	9	3	8	--
Oil Burner Service	13	--	11	--	5	--	2	--
Pipefitting	56	--	40	--	18	--	4	--
Plumbing	48	--	33	--	7	--	3	--
Psychiatric Attendant	2	7	2	5	--	--	--	--
Refrigeration & Air Condition	15	--	10	--	6	--	3	--
Registered Nursing Assistant	6	70	--	56	--	42	--	34
Sheet Metal	12	--	9	--	1	--	1	--

Table 12 Continued

PROGRAM	Graduates		Respondents		Employed		Program Related	
	Male	Female	Male	Female	Male	Female	Male	Female
Stationary Engineer	43*	--*	29	--	13	--	10	--
Tool and Die Making	5	--	4	--	3	--	1	--
Travel Agent	1	13	--	10	--	7	--	2
Upholstery	8	10	6	8	5	3	4	2
Welding	151*	3*	96	2	28	1	5	--
BUSINESS EDUCATION:								
Bank and Finance Clerk	3	30	3	15	2	7	1	2
Bookkeeping Clerk	6	35	5	30	3	17	1	6
Bookkeeping/Accounting Clerk	2*	8*	1	6	1	4	--	--
Business Education	--	47	--	33	--	19	--	9
Clerk Typist	--	112	--	70	--	36	--	19
Clerk Typist-Bilingual	--	20	--	17	--	11	--	7
Key Punch Operator	--	1	--	1	--	--	--	--
Legal Secretary	--	28	--	21	--	18	--	11
Medical Secretary	--	21	--	20	--	15	--	6
Medical Transcriptionist	--	11	--	8	--	7	--	4
Stenography	--	99	--	75	--	50	--	30
Senography-Bilingual	--	26	--	21	--	17	--	13
Typing-Basic	--	8	--	4	--	2	--	1
Word Processing	--	11	--	5	--	2	--	1
UPGRADING:								
Clerk Typist/Senographer	--	4	--	1	--	--	--	--
Clerk Typist	--	3	--	3	--	2	--	1
Stenography	--	3	--	2	--	1	--	1
Nursing Assistant	4*	6*	3	4	3	4	1	2
Welding	35	--	25	--	16	--	7	--
	1,445	969	1,001	694	490	443	225	266

* These numbers were estimated.